

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/527,100A
Source: IFWO
Date Processed by STIC: 06/07/2006

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IFWO

RAW SEQUENCE LISTING

DATE: 06/07/2006

PATENT APPLICATION: US/10/527,100A

TIME: 17:09:53

Input Set : A:\P1977R1 Sequence Listing.txt

Output Set: N:\CRF4\06072006\J527100A.raw

(pg-6)

```

3 <110> APPLICANT: SARAH C. BODARY
4   JANET K. JACKMAN
5   BRISDELL HUNTE
6   HILARY CLARK
7   JILL R. SCHOENFELD
8   P. MICKEY WILLIAMS
9   WILLIAM I. WOOD
10  THOMAS D. WU
12 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT OF IMMUNE
13   RELATED DISEASES
15 <130> FILE REFERENCE: P1977R1-US
17 <140> CURRENT APPLICATION NUMBER: US 10/527,100A
C--> 18 <141> CURRENT FILING DATE: 2006-01-09
20 <150> PRIOR APPLICATION NUMBER: PCT/US03/028317
21 <151> PRIOR FILING DATE: 2003-09-10
23 <150> PRIOR APPLICATION NUMBER: US 60/410,340
24 <151> PRIOR FILING DATE: 2002-09-11
26 <160> NUMBER OF SEQ ID NOS: 106
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 1989
30 <212> TYPE: DNA
31 <213> ORGANISM: Homo sapiens
33 <400> SEQUENCE: 1
34  ggcacgaggg  cgtcacgggc  gcccgggccc  ttaaaacgct  gctggctgga  50
36  gccacctccc  tcctgcagc  cgcgaacggg  aatggagtaa  agggagaccc  100
38  gtcgacctgg  ccacggggat  cagcgatgga  attaaagcaa  tctttgtcca  150
40  cccatctgga  agccgagaag  cctctgaggc  gctatggggc  ggtggaggag  200
42  acggcttgga  aaacggagag  actggggaga  aatcagctgg  acatcatctc  250
44  catggcggag  acaaccatga  tgccagagga  gattgagctg  gagatggcaa  300
46  aaattcagcg  tctccgggaa  gtcttggtcc  gccgggagtc  tgagctcagg  350
48  ttcatgatgg  atgacatcca  gctctgcaag  gacatcatgg  acttgaagca  400
50  ggagctgcag  aacttggtcg  ccatcccaga  aaaagaaaaa  accaaactgc  450
52  agaagcagag  agaggatgag  ctaatccaga  agatccacaa  actggtgcag  500
54  aagagagact  tcctggtgga  cgatgcggag  gtcgagcggg  taaggagca  550
56  agaagaagac  aaggaaatgg  ctgatttcct  gagaatcaag  ttaaaacctc  600
58  tagacaaagt  aaccaaactc  ccagccagct  cccgggcaga  gaagaaagca  650
60  gagccccac  ctagcaagcc  caggtggcc  aagacggggc  tggcactgat  700
62  caaggattgt  tgcggggcca  cccagtgcaa  catcatgtag  cccccacgtg  750
64  ggggtgccctg  ggccatgggg  accccccccc  accctcttgt  ctttatagcc  800
66  cccatttcac  cggggcccaa  gagctctcca  aggcagaagg  ggttgaaggc  850
68  aagcccgtag  ctgtcaccag  aggccatggg  cacggcaggc  gggcctggcc  900
70  accctgtaca  gagtgtagca  gtagggagtc  tctcaccgtc  gcatggtcct  950
72  cccagagca  tgccgaaccc  aggagtctgt  ctactgttt  atccaaacac  1000

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74  caggaaaggt cctccctcaa aaaagcatat ctccacttct ctctagctgt 1050
76  atctaaccce ccgtgtgaat gaactgggag aggggcatgc tccccagctg 1100
78  tgtgtagtcg tgacttctca acaatctagc accatgtcgg acacgttccc 1150
80  catccaccct cctagctctg ctctcagagc taggcacatg ggcacaggtc 1200
82  ccctcccgtc tgtcctctcc cagcaactgt gccctggagg gctccacatg 1250
84  gcccccggtg ctctcgggca ccacccatat agcagtccca gagggcccat 1300
86  ctgtaaagat cgagcttggtg tgtgggtgctg tggtcacatc tcccgttccc 1350
88  ccccatcctg tgtctgggca cagttcacat caggacagcg tccattgtgc 1400
90  tctcagtctg cctcagggtg gtgcctggag ggggcctgga ctggcatgga 1450
92  tccagtgtgc agaagagcca gcagggaacc ggaagctctg atgtcaaggc 1500
94  cagagcagtt gagaatggga ccagagtag atgctgacct gggcactcca 1550
96  ccattccggg gccaccacag agatgccagc aggatgccac tttgccagcc 1600
98  cgacacacgg acctttgtaa agaacagcaa caggcaggag aggcagcgtg 1650
100 tgaccagatt gtgtcccgtc attgggtggc atatgttaac tagctgcca 1700
102 acaacttcaa cccgtgtaat tcatgtacat ttgcaacagc cagcccggta 1750
104 cagcctgtgt gacttctctg tatgtgtgtg tgtgtcgtga ccagcctaag 1800
106 tagttagcat aactcaagat gctgatgtgc agtcacccat cagagaaaat 1850
108 aaaaaaggaa accacgttca cagcatttta aaagttttta ctttttttct 1900
110 tgattatgga agtaatccat gtacatagta aatcatttta aaagtacaaa 1950
112 aagtatgaag aagtttgtct taiaaaaaaa aiaaaaaaa 1989
114 <210> SEQ ID NO: 2
115 <211> LENGTH: 245
116 <212> TYPE: PRT
117 <213> ORGANISM: Homo sapiens
119 <400> SEQUENCE: 2
120  His Glu Gly Val Thr Gly Ala Arg Pro Val Lys Thr Leu Leu Ala
121      1             5             10             15
123  Gly Ala Thr Ser Leu Pro Ala Ala Arg Asn Gly Asn Gly Val Lys
124             20             25             30
126  Gly Asp Pro Ser Thr Trp Pro Arg Gly Ser Ala Met Glu Leu Lys
127             35             40             45
129  Gln Ser Leu Ser Thr His Leu Glu Ala Glu Lys Pro Leu Arg Arg
130             50             55             60
132  Tyr Gly Ala Val Glu Glu Thr Ala Trp Lys Thr Glu Arg Leu Gly
133             65             70             75
135  Arg Asn Gln Leu Asp Ile Ile Ser Met Ala Glu Thr Thr Met Met
136             80             85             90
138  Pro Glu Glu Ile Glu Leu Glu Met Ala Lys Ile Gln Arg Leu Arg
139             95            100            105
141  Glu Val Leu Val Arg Arg Glu Ser Glu Leu Arg Phe Met Met Asp
142            110            115            120
144  Asp Ile Gln Leu Cys Lys Asp Ile Met Asp Leu Lys Gln Glu Leu
145            125            130            135
147  Gln Asn Leu Val Ala Ile Pro Glu Lys Glu Lys Thr Lys Leu Gln
148            140            145            150
150  Lys Gln Arg Glu Asp Glu Leu Ile Gln Lys Ile His Lys Leu Val
151            155            160            165
153  Gln Lys Arg Asp Phe Leu Val Asp Asp Ala Glu Val Glu Arg Leu
154            170            175            180

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156 Arg Glu Gln Glu Glu Asp Lys Glu Met Ala Asp Phe Leu Arg Ile
157                               185                               190                               195
159 Lys Leu Lys Pro Leu Asp Lys Val Thr Lys Ser Pro Ala Ser Ser
160                               200                               205                               210
162 Arg Ala Glu Lys Lys Ala Glu Pro Pro Pro Ser Lys Pro Thr Val
163                               215                               220                               225
165 Ala Lys Thr Gly Leu Ala Leu Ile Lys Asp Cys Cys Gly Ala Thr
166                               230                               235                               240
168 Gln Cys Asn Ile Met
169                               245
171 <210> SEQ ID NO: 3
172 <211> LENGTH: 649
173 <212> TYPE: DNA
174 <213> ORGANISM: Homo sapiens
176 <220> FEATURE:
177 <221> NAME/KEY: unsure
178 <222> LOCATION: 524
179 <223> OTHER INFORMATION: unknown base
181 <400> SEQUENCE: 3
182 cattttttaa cttttttttt aatttttatt tggtagctag gttttatatt 50
184 gttctttaa tttttttact ctattttatt tttccatcac ttctttgtcc 100
186 cagattcatg aaatttgctg atgtccattt tatgtctact tttgaactct 150
188 tctctttgtg tttgttttgt tcttattaca aactccaaga catttcttag 200
190 aattgtctac agatttcgtg tagctactta ttggtagctt ctttaattca 250
192 tacttgcca gaccattaga cattattaca tgctctgtct tgggcctatc 300
194 attaacatta gcttagggat tctgatttca aagacataaa gaattggcaa 350
196 aactcttctt acagaactta aaacaagttt taaagttaca tttctataca 400
198 tctaatacat aataccttct tagccattaa tgtaattcct ctggataaag 450
200 ataatatatt caaaaaatat tgggaccaa aaatgcactt gtttcttgct 500
W--> 202 catatatata tagatgtaaa attnttttaa tttcttggtt gtttattttg 550
204 gttacattga atacagattt gctgaacagt tttgatgtta tttttttaat 600
206 aaaatttgta ttgttaaagt gccttggaat tttctaataa ataacttca 649
208 <210> SEQ ID NO: 4
209 <211> LENGTH: 655
210 <212> TYPE: DNA
211 <213> ORGANISM: Homo sapiens
213 <400> SEQUENCE: 4
214 aaatatgtgg gttggaagaa agaacgtgta gtagcagagt tttgggatgg 50
216 gaaaatcgtg ttggttctgc cacatgatcc aagctttgct atcaaaaagg 100
218 tagaagatgt ccaagaactt gttgataatg aattgggctt ccagcaagtt 150
220 gttcctaaat gtccaaacaa aataaaaact tttcttgtaa tatctggatg 200
222 aaaagagagt agttgggtgt ttaattgcag aacctatcaa acaggcattt 250
224 cgtgtcctgt ctgaaccaat tgggtccaga tccccagct ctacggaatg 300
226 tcctagggct tggcaatggt cagatgtacc agaacctgca gtctgtggga 350
228 taagtagaat ctgggttttc agactgaaga gaagaaagcg cattgcaaga 400
230 cgactgggtg ataccctcag gaattgcttc atgtttggct gttttctcag 450
232 cactgatgaa atagcatttt ctgacccaac accagatggc aagttatttg 500
234 caaccaagta ctgcaacacc cctaatttcc tcgtatataa ttttaatagt 550
236 taaagctgat ttcagttata aaggagttac tatctggata agttcaaaga 600

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238 gctccttatt ataaaaataca aactatttta tatcaaaaata aaaaataaccg 650
240 agact 655
242 <210> SEQ ID NO: 5
243 <211> LENGTH: 66
244 <212> TYPE: PRT
245 <213> ORGANISM: Homo sapiens
247 <400> SEQUENCE: 5
248 Lys Tyr Val Gly Trp Lys Lys Glu Arg Val Val Ala Glu Phe Trp
249 1 5 10 15
251 Asp Gly Lys Ile Val Leu Val Leu Pro His Asp Pro Ser Phe Ala
252 20 25 30
254 Ile Lys Lys Val Glu Asp Val Gln Glu Leu Val Asp Asn Glu Leu
255 35 40 45
257 Gly Phe Gln Gln Val Val Pro Lys Cys Pro Asn Lys Ile Lys Thr
258 50 55 60
260 Phe Leu Val Ile Ser Gly
261 65
263 <210> SEQ ID NO: 6
264 <211> LENGTH: 1332
265 <212> TYPE: DNA
266 <213> ORGANISM: Homo sapiens
268 <400> SEQUENCE: 6
269 ggcacgagaa aaaacattaa gacagaactt aaaaacaata gattgactat 50
271 aatccaaaga cgagtgtacc tctaaccaca attttcattt atttttaaat 100
273 gtttccttca tggcctttct tgtggctcac cctatgcagt ttgtgtattt 150
275 gttgacaact ttatgtgttt ttaatatggg ttttgccaaa cttgggtttt 200
277 ccgagaccgt cttttctcag aggtctagtt ttaccgtcct atctgcagtc 250
279 ggctactttc agtgggcaga agaggccaca tctgcttcct gtaggccctc 300
281 tgggcagaag catgcgctgg tgtctcctcc tgatctgggc ccaggggctg 350
283 aggcaggctc ccctcgctc aggaatgatg acaggcacia tagaaacaac 400
285 ggggaacatt tctgcagaga aagggtggctc tatcatctta caatgtcacc 450
287 tctcctccac cacggcacia gtgaccagg tcaactggga gcagcaggac 500
289 cagcttctgg ccatttgtaa tgctgacttg ggggtggcaca tctccccatc 550
291 cttcaaggat cgagtggccc caggtcctgg cctgggcctc accctccagt 600
293 cgctgaccgt gaacgataca ggggagtact tctgcatcta tcacacctac 650
295 cctgatggga cgtacactgg gagaatcttc ctggaggtcc tagaaagctc 700
297 agtggctgag cagcgtgcca ggttccagat tccattgctt ggagccatgg 750
299 ccgcgacgct ggtggtcatc tgcacagcag tcatcgtggt ggtcgcgttg 800
301 actagaaaga agaaagccct cagaatccat tctgtggaag gtgacctcag 850
303 gagaaaatca gctggacagg aggaatggag cccagtgct cctcaccctc 900
305 caggaagctg tgtccaggca gaagctgcac ctgctgggct ctgtggagag 950
307 cagcggggag aggactgtgc cgagctgcat gactacttca atgtcctgag 1000
309 ttacagaagc ctgggtaact gcagcttctt cacagagact ggtagcaaac 1050
311 cagaggcatc ttctggaaga tacacttttg tctttgctat tatagatgaa 1100
313 tatataagca gctgtactct ccatcagtg tgcgtgtgtg tgtgtgtgtg 1150
315 tatgtgtgtg tgtgttcagt tgagtgaata aatgtcatcc tcttctccat 1200
317 cttcatttcc ttggcctttt cgttctatcc cattttgcat tatggcaggc 1250
319 ctagggtgag taacgtggat cttgatcata aatgcaaaat taaaaaatat 1300
321 cttgacctgg ttttaaaaaa aaaaaaaaaa aa 1332

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323 <210> SEQ ID NO: 7
324 <211> LENGTH: 244
325 <212> TYPE: PRT
326 <213> ORGANISM: Homo sapiens
328 <400> SEQUENCE: 7
329 Met Arg Trp Cys Leu Leu Leu Ile Trp Ala Gln Gly Leu Arg Gln
330 1 5 10 15
332 Ala Pro Leu Ala Ser Gly Met Met Thr Gly Thr Ile Glu Thr Thr
333 20 25 30
335 Gly Asn Ile Ser Ala Glu Lys Gly Gly Ser Ile Ile Leu Gln Cys
336 35 40 45
338 His Leu Ser Ser Thr Thr Ala Gln Val Thr Gln Val Asn Trp Glu
339 50 55 60
341 Gln Gln Asp Gln Leu Leu Ala Ile Cys Asn Ala Asp Leu Gly Trp
342 65 70 75
344 His Ile Ser Pro Ser Phe Lys Asp Arg Val Ala Pro Gly Pro Gly
345 80 85 90
347 Leu Gly Leu Thr Leu Gln Ser Leu Thr Val Asn Asp Thr Gly Glu
348 95 100 105
350 Tyr Phe Cys Ile Tyr His Thr Tyr Pro Asp Gly Thr Tyr Thr Gly
351 110 115 120
353 Arg Ile Phe Leu Glu Val Leu Glu Ser Ser Val Ala Glu His Gly
354 125 130 135
356 Ala Arg Phe Gln Ile Pro Leu Leu Gly Ala Met Ala Ala Thr Leu
357 140 145 150
359 Val Val Ile Cys Thr Ala Val Ile Val Val Val Ala Leu Thr Arg
360 155 160 165
362 Lys Lys Lys Ala Leu Arg Ile His Ser Val Glu Gly Asp Leu Arg
363 170 175 180
365 Arg Lys Ser Ala Gly Gln Glu Glu Trp Ser Pro Ser Ala Pro Ser
366 185 190 195
368 Pro Pro Gly Ser Cys Val Gln Ala Glu Ala Ala Pro Ala Gly Leu
369 200 205 210
371 Cys Gly Glu Gln Arg Gly Glu Asp Cys Ala Glu Leu His Asp Tyr
372 215 220 225
374 Phe Asn Val Leu Ser Tyr Arg Ser Leu Gly Asn Cys Ser Phe Phe
375 230 235 240
377 Thr Glu Thr Gly
380 <210> SEQ ID NO: 8
381 <211> LENGTH: 1336
382 <212> TYPE: DNA
383 <213> ORGANISM: Homo sapiens
385 <400> SEQUENCE: 8
386 gtcagtcgcg agcgaacgac caagagggtg ttcgactgct agagccgagc 50
388 gaagcgatgc ctaaatacaa ggaacttggt tcttcaggct cttctggcag 100
390 tgattctgac agtgaggttg acaaaaagtt aaagaggaaa aagcaagttg 150
392 ctccagaaaa acctgtaaag aaacaaaaga caggtgagac ttcgagagcc 200
394 ctgtcatctt ctaaacagag cagcagcagc agagatgata acatgtttca 250
396 gattgggaaa atgaggtacg ttagtggtcg cgattttaaa ggcaaagtgc 300

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/527,100A

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 524
Seq#:15; N Pos. 688,734,762,788
Seq#:18; N Pos. 7,11,12,26,28,567,583,586,587,588,589,591,593,594,597,599
Seq#:18; N Pos. 601,602,605,609,617,619,630,634,638,640,641,646,647,648,651
Seq#:18; N Pos. 652,656,657,658,660,665,667,668,671,672,673,678,679,683,684
Seq#:18; N Pos. 687,689,692,693,694,697,698,702,704,711,713,716,718,719,721
Seq#:18; N Pos. 723,724,725,728,730,731,736,740,742,744,746,748,749,757,758
Seq#:18; N Pos. 759,760,763,764,767,768,769,770,774,775
Seq#:46; N Pos. 779
Seq#:62; N Pos. 3011,3213
Seq#:68; N Pos. 37
Seq#:76; N Pos. 72
Seq#:93; N Pos. 1823,1824,1825,1826,1827,1828,1829,1830,1831,1832,1833,1834
Seq#:93; N Pos. 1835,1836,1837,1838,1839,1840,1841,1842,1843,1844,1845,1846
Seq#:93; N Pos. 1847,1848,1849,1850,1851,1852,1853,1854
Seq#:106; N Pos. 421

VERIFICATION SUMMARY

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L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:500
L:890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:650
M:341 Repeated in SeqNo=15
L:1133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
M:341 Repeated in SeqNo=18
L:3637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:750
L:5023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:3000
M:341 Repeated in SeqNo=62
L:5279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0
L:5816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:50
L:7144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:1800
M:341 Repeated in SeqNo=93
L:7856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:400